

CICS Advanced Application Programming Workshop

Course Summary

Description

This course is designed for students who desire a more in depth understanding of application performance considerations and more sophisticated CICS/TS features. This course can be taught at the current release of CICS/TS or any previous release based on the client's needs.

Objectives

Upon completion of this course, the student should be able to:

- Be able to utilize BMS mapping techniques to reduce line transmission traffic
- Understand when and why to use "Locate Mode" I/O
- Understand techniques to reduce file contention
- Use techniques for additional storage (Getmain, TWA, CSA, TCTUA)
- When and how to utilize temporary storage
- Use automatic task initiation through transient data and interval control
- Utilize efficient error handling techniques and ABEND trapping
- Create the mapset and application code to implement the BMS paging facility

Topics

- BMS map transmission
- File I/O efficiency considerations
- Utilizing dynamic storage areas
- Temporary storage processing
- Transient data processing
- Exception processing
- Interval control functions
- BMS paging

Audience

This course is designed for application programmers and analysts.

Duration

Four days

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Course Outline

- I. BMS Map Transmission**
 - A. Dataonly
 - B. Maponly, shadow mapping, MDT concepts
 - C. FRSET concept
 - D. minimizing FSETs
 - E. DFHAID vs. handle aid
- II. File I/O Efficiency Considerations**
 - A. Locate mode vs. move mode
 - B. CISIZE considerations
 - C. Record locking
 - D. DTB
 - E. Logging
 - F. Journalling
 - G. Syncpoint
 - H. ENQ
 - I. DEQ
- III. Utilizing Dynamic Storage Areas**
 - A. Getmain
 - B. Commarea concepts
 - C. TWA
 - D. TCTUA
 - E. CWA
 - F. ASSIGN
 - G. ADDRESS
- IV. Temporary Storage Processing**
 - A. Main vs. aux
 - B. Locate mode
- V. Transient Data Processing**
 - A. Automatic task initiation
 - B. Batch job submission
- VI. Exception Processing**
 - A. RESP and NOHANDLE vs. handle conditions and ignore conditions
 - B. Handle abend
 - C. Abend vs. dump
- VII. Interval Control Functions**
 - A. Automatic task initiation
 - B. Start
 - C. Retrieve
 - D. Delay
 - E. Suspend
- VIII. BMS Paging**
 - A. Mapset and map definitions
 - B. Application code considerations